

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 September 2005 (15.09.2005)

PCT

(10) International Publication Number
WO 2005/084390 A2

(51) International Patent Classification: **Not classified**

(21) International Application Number:
PCT/US2005/007239

(22) International Filing Date: 2 March 2005 (02.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/549,476 2 March 2004 (02.03.2004) US

(71) Applicant (for all designated States except US): **SEATTLE GENETICS, INC.** [US/US]; 21823 30th Drive South East, Bothell, Washington 98021 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ALLEY, Stephen, Charles** [US/US]; 251 North West 73rd Street, Seattle, Washington 98117 (US). **TORGOV, Michael** [RU/US]; 53 D Kaye Vue Drive, Hamden, Connecticut 06514 (US). **SUN, Michael** [US/US]; 308 170th Place Southeast, Bothell, Washington 98012 (US).

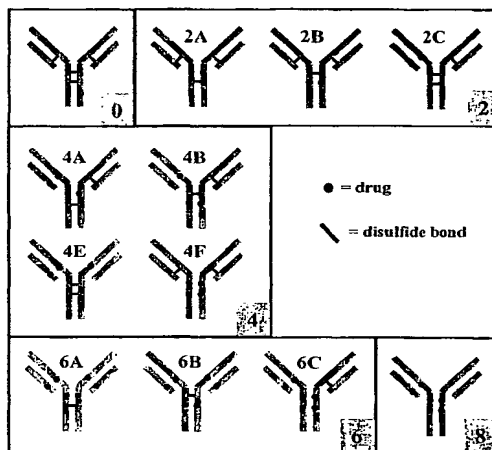
(74) Agents: **SANDBAKEN, Mark, G. et al.; TOWNSEND AND TOWNSEND AND CREW LLP**, Two Embarcadero Center, 8th Floor, San Francisco, California 94111-3834 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: **PARTIALLY LOADED ANTIBODIES AND METHODS OF THEIR CONJUGATION**



(57) Abstract: A protein containing one or more activatable groups, e.g., an antibody, is subjected to partial or complete reduction of one or more such bonds to form reactive groups; the resulting protein is reacted with a drug which is reactive with some of the reactive groups, such as certain radiometals, chelating agents, and toxins, so as to form a conjugate useful in, e.g., in vitro diagnosis, in vivo imaging, and therapy.

SEATTLE GENETICS, INC.

WO 2005/084390 A2



Published:

- without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

BEST AVAILABLE COPY